AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

- 1. (Previously Presented) An isolated nucleic acid molecule comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO:2, or which is complementary thereto over its full length.
- 2. (Previously Presented) The nucleic acid molecule of claim 1, which comprises the nucleotide sequence shown in SEQ ID NO:1, or which is complementary thereto over its full length.

3.-5. (Canceled)

- 6. (Currently Amended) An isolated nucleic acid molecule, which has at least 90% nucleotide identity with SEQ ID NO:1 over its full length, and which encodes a polypeptide that binds a consensus T-box site in DNA and <u>induces</u> modulates IFN-γ production <u>in CD4+ cells</u>.
 - 7. (Canceled)
 - 8. (Previously Presented) A vector comprising the nucleic acid molecule of claim 1.
 - 9. (Previously Presented) The vector of claim 8, which is an expression vector.
 - 10. (Previously Presented) A host cell containing the vector of claim 9.
- 11. (Previously Presented) A method for producing a T-bet protein comprising culturing the host cell of claim 10 in a suitable medium until a T-bet protein is produced.

12. (Previously Presented) The method of claim 11, further comprising isolating the T-bet protein from the medium or the host cell.

13.-49. (Canceled)

- 50. (Currently Amended) The nucleic acid molecule of <u>claim 6</u> elaim 4, wherein the polypeptide has at least one activity selected from the group consisting of: inducing IFN-γ production in CD4+ cells, inducing Th1-associated cytokine production, inhibiting production of IL-2, and inducing the differentiation of Thp cells and Th2 cells into Th1 cells.
- 51. (Currently Amended) An isolated nucleic acid molecule which hybridizes to the complement of the nucleic acid molecule set forth in SEQ ID NO:1 over the full length of the isolated nucleic acid molecule in 6X SSC at 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C under stringent conditions, wherein said nucleic acid molecule encodes a polypeptide that binds a consensus T-box site in DNA and induces modulates IFN-γ production in CD4+ cells.

52. (Canceled)

- 53. (Currently Amended) An isolated nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID NO:2, wherein said nucleic acid molecule encodes a polypeptide that binds to a consensus T-box site in DNA and induces modulates IFN-y production in CD4+ cells.
- 54. (Previously Presented) The isolated nucleic acid molecule of claim 1, further comprising a nucleotide sequence encoding a heterologous polypeptide.
- 55. (Previously Presented) An isolated nucleic acid molecule consisting of at least 700 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:1, or a nucleotide sequence complementary thereto over the full length of the isolated nucleic acid molecule.

- 56. (Canceled)
- 57. (Currently Amended) An isolated The nucleic acid molecule comprising the nucleotide sequence shown in SEQ ID NO:1 of claim 51, wherein the nucleic acid molecule is labeled with a detectable substance.
- 58. (Previously Presented) An isolated nucleic acid molecule comprising at least 700 nucleotides which are complementary to at least 700 nucleotides of SEQ ID NO:1.
 - 59. (Canceled)
 - 60. (Canceled)
- 61. (Previously Presented) The expression vector of claim 9, comprising a constitutive promotor.
- 62. (Previously Presented) The expression vector of claim 9, comprising an inducible promotor.
- 63. (Previously Presented) The expression vector of claim 9, comprising a tissue-specific regulator element.
- 64. (Previously Presented) The nucleic acid molecule of claim 50, wherein the Th1-associated cytokine is selected from the group consisting of IFNγ, TNF, and Lymphotoxin.
- 65. (Currently Amended) The nucleic acid molecule of <u>claim 6</u> elaim 4 or 6, wherein the identity is determined by the BLAST program using the default Blastn matrix.
- 66. (Currently Amended) A vector comprising the nucleic acid molecule of claim 6 elaim 4.
- 67. (Previously Presented) A vector comprising the nucleic acid molecule of claim 53 or 55.

68. (Previously Presented) The vector of claim 66, which is an expression vector.

- 69. (Previously Presented) A host cell containing the vector of claim 68.
- 70. (Previously Presented) A method for producing a T-bet protein comprising culturing the host cell of claim 69 in a suitable medium until a T-bet protein is produced.
- 71. (Previously Presented) The method of claim 70, further comprising isolating the T-bet protein from the medium or the host cell.
 - 72. (Previously Presented) The vector of claim 67, which is an expression vector.
 - 73. (Previously Presented) A host cell containing the vector of claim 72.
- 74. (Previously Presented) A method for producing a T-bet protein comprising culturing the host cell of claim 73 in a suitable medium until a T-bet protein is produced.
- 75. (Previously Presented) The method of claim 74, further comprising isolating the T-bet protein from the medium or the host cell.
 - 76. (Canceled)
 - 77. (Canceled)
- 78. (Previously Presented) The expression vector of claim 68, comprising a constitutive promotor.
- 79. (Previously Presented) The expression vector of claim 68, comprising an inducible promotor.
 - 80. (Previously Presented) The expression vector of claim 68, comprising a tissue-

specific regulator element.

81. (Previously Presented) The expression vector of claim 72, comprising a constitutive promotor.

- 82. (Previously Presented) The expression vector of claim 72, comprising an inducible promotor.
- 83. (Previously Presented) The expression vector of claim 72, comprising a tissue-specific regulator element.
- 84. (Previously Presented) The nucleic acid molecule of claim 53, wherein the polypeptide has at least one activity selected from the group consisting of: inducing IFN-γ production in CD4+ cells, inducing Th1-associated cytokine production, inhibiting production of IL-2, and inducing the differentiation of Thp cells and Th2 cells into Th1 cells.
 - 85. (Canceled)
 - 86. (Canceled)
- 87. (Withdrawn) An isolated nucleic acid molecule comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO:4, or which is complementary thereto over its full length.
- 88. (Withdrawn) The nucleic acid molecule of claim 1, which comprises the nucleotide sequence shown in SEQ ID NO:3, or which is complementary thereto over its full length.
 - 89. (Canceled)
- 90. (Currently Amended; Withdrawn) An isolated nucleic acid molecule, which has at least 90% nucleotide identity with SEQ ID NO:3 over its full length, and which encodes a polypeptide that binds a consensus T-box site in DNA and induces modulates IFN-γ production

in CD4+ cells.

91. (Currently Amended; Withdrawn) An isolated nucleic acid molecule which hybridizes to the complement of the nucleic acid molecule set forth in SEQ ID NO:3 over the full length of the nucleic acid molecule in 6X SSC at 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C under stringent conditions, wherein said nucleic acid molecule encodes a polypeptide that binds a consensus T-box site in DNA and induces modulates IFN- γ production in CD4+ cells.

- 92. (Currently Amended; Withdrawn) An isolated nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID NO:4, wherein said nucleic acid molecule encodes a polypeptide that binds to a consensus T-box site in DNA and induces modulates IFN-γ production in CD4+ cells.
- 93. (Withdrawn) An isolated nucleic acid molecule consisting of at least 500 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:3, or a complement thereof thereof over the full length of the isolated nucleic acid molecule.
- 94. (Withdrawn) An isolated nucleic acid molecule comprising at least 500 nucleotides which are complementary to at least 500 nucleotides of SEQ ID NO:3.
- 95. (Currently Amended; Withdrawn) A vector comprising the nucleic acid molecule of claim 87 or 89.
 - 96. (Withdrawn) The vector of claim 95, which is an expression vector.
 - 97. (Withdrawn) A host cell containing the vector of claim 96.
- 98. (Withdrawn) A method for producing a T-bet protein comprising culturing the host cell of claim 97 in a suitable medium until a T-bet protein is produced.

99. (Withdrawn) The method of claim 98, further comprising isolating the T-bet protein from the medium or the host cell.

- 100. (Currently Amended; Withdrawn) The nucleic acid molecule of <u>claim 87</u> elaim 89, wherein the polypeptide has at least one activity selected from the group consisting of: inducing IFN-γ production in CD4+ cells, inducing Th1-associated cytokine production, inhibiting production of IL-2, and inducing the differentiation of Thp cells and Th2 cells into Th1 cells.
- 101. (Withdrawn) The isolated nucleic acid molecule of claim 87, further comprising a nucleotide sequence encoding a heterologous polypeptide.
- 102. (Currently Amended; Withdrawn) <u>An isolated The</u> nucleic acid molecule <u>comprising the nucleotide sequence shown in SEQ ID NO:3 of claim 91</u>, wherein the nucleic acid molecule is labeled with a detectable substance.
- 103. (Withdrawn) The expression vector of claim 96, comprising a constitutive promotor.
- 104. (Withdrawn) The expression vector of claim 96, comprising an inducible promotor.
- 105. (Withdrawn) The expression vector of claim 96, comprising a tissue-specific regulator element.
- 106. (Withdrawn) The nucleic acid molecule of claim 100, wherein the Th1-associated cytokine is selected from the group consisting of IFNγ, TNF, and Lymphotoxin.
 - 107. (Withdrawn) A vector comprising the nucleic acid molecule of claim 91 or 92.
 - 108. (Withdrawn) The vector of claim 107, which is an expression vector.
 - 109. (Withdrawn) A host cell containing the vector of claim 108.

110. (Withdrawn) A method for producing a T-bet protein comprising culturing the host cell of claim 109 in a suitable medium until a T-bet protein is produced.

- 111. (Withdrawn) The method of claim 110, further comprising isolating the T-bet protein from the medium or the host cell.
- 112. (Withdrawn) The isolated nucleic acid molecule of claim 92, further comprising a nucleotide sequence encoding a heterologous polypeptide.
 - 113. (Canceled)
 - 114. (Canceled)